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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/596,878

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Yoshitaka Nishio

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10/15/2010

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EXAMINER

LEE, LAURA MICHELLE

ART UNIT

PAPER NUMBER

3724

MAIL DATE

DELIVERY MODE

10/15/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/596,878

Applicant(s)

NISHIO, YOSHITAKA

Examiner

LAURA M. LEE

Art Unit

3724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2010.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-4, 8 is/are rejected.
7) ☒ Claim(s) 5-7 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/CD)
Paper No(s)/Mail Date 9/07/2010
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

1. This office action is in response to the amendment filed on 7/27/2010, in which claims 1-8 are pending, and claim 1 is amended.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Momosaki (U.S. Publication 2003/0047048). Momosaki discloses a scribing line forming mechanism (Figure 1) comprising: a scribing line forming means (rotating blade, 13) being structured so as to form a scribing line on a substrate by contacting the substrate, and the scribing line forming mechanism (1) is configured to move on a surface of the substrate and to pull the scribing line forming means (13) to form the scribing line on the surface of the substrate along a movement path line (i.e. E) of the scribing line forming mechanism (as shown in Figure 1, the scribe line forming mechanism 1 is manually pullable about path line E and thus pulls the cutter wheel) ; and a supporting means (65) for supporting the scribing line forming means (13) such that the scribing line forming means (13) is turnable about a first turning axis (defined by rotating support piece 11), the supporting means (65) being structured so as to be

turnable about a second turning axis (defined by pivot piece 66), the second turning axis (66) being different from the first turning axis (11), wherein the axial center of the first turning axis and the axial center of the second turning axis are approximately in parallel (both are vertical axis), the first turning axis (11) extends through the scribing line forming means (13) and the second turning axis (66) extends through the supporting means (65) and the axial center of the second turning axis (66) is distant by a predetermined interval (i.e. approx. by the length of 65) from a portion where the substrate and the scribing line means forming means contact each other and the axial center of the second tuning axis is substantially perpendicular to a surface of the substrate.

It is noted that the limitation of "is distant by a predetermined interval" does not imply a constant or fixed interval. Applicant should also note that the limitations scribing line forming means are not in compliance with the Supplemental Guidelines published in the Official Gazette on July 25, 2000. Such limitations cannot be used to invoke 35 USC 112, 6th paragraph, and have therefore been given their broadest reasonable interpretation, without considering equivalence.

In regards to claim 2, Momosaki discloses wherein the scribing line forming means includes a cutter wheel (13), and the supporting means (65) includes a cutter supporting means (3) for the cutting wheel (13) such that the cutter wheel is rotatable (at 11).

In regards to claim 3, Momosaki discloses wherein the supporting means (65) includes a bearing (bearing, 12) for supporting the scribing line forming means (13).

In regards to claim 4, Momosaki discloses a scribing line forming mechanism according to claim 1; and a pressure application means (air connection valve 52) for applying a pressure force to the scribing line forming mechanism in order to press the scribing line forming means onto the substrate.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Momosaki in view of Galindez (U.S. Patent 4,372,471).

In regards to claim 8, Momosaki discloses that the scribing line forming means forms the scribing line of the substrate, but does not disclose a moving means for moving the scribing head on a surface, where the surface is approximately parallel to the substrate. However, attention is also directed to the Galindez reference. Galindez also discloses a glass cutting device that utilizes the movement of a rotary cutter to impart a cut line on a substrate as similarly shown by Momosaki. Galindez however, also discloses both manual and motorized means of moving the scribing head to automate and better control the movement of the cutter. As it is well known to automate an otherwise manual operation, it would have been obvious to one having ordinary skill

in the art to have similarly automated the movement of the Momosaki scribing head as taught already in the art by Galindez by incorporating a motor and pneumatic cylinder to similarly control the cutter movement.

Allowable Subject Matter

6. Claims 5-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach a scribing line forming mechanism with a scribe line forming means rotatable about a first axis parallel yet different from the axis of a supporting means that is further supported by a first supporting means rotatable about a third axis perpendicular (vertical) to the first two axes and also with a restriction means that restrains the turning of the first supporting means by contact.

Response to Arguments

7. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection. The limitations "along a movement path line of the scribing line forming mechanism" are not so limited that they impart that the entire scribing line forming mechanism translates along the path line during movement of the cutter. "A movement path line" is broad enough that it reads on any movement

path line, of a partial component of the mechanism, such that at least the cutting tool A, which is part of the forming mechanism, moves along the cutting line E.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **LAURA M. LEE** whose telephone number is (571)272-8339. The examiner can normally be reached on Monday through Friday, 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on (571) 272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura M Lee/
Primary Examiner, Art Unit 3724
10/13/2010